

ABSTRACT

Please replace the previous Abstract with the following:

The invention seals, unseals and/or bonds plastics, waxes and resins via a thermal metal strip or wire coated with liquefiable substances that melt to open or separate and cools to congeal, seal, vulcanize or bond together; when the wire or strip is energized in a shorted state (to heat) or not energized (to cool). Electronic switch modalities and sealing applications are optionally taught for security and tamper detection. In one modality a unique signal is sent to the gate leg of a micro-processing chip (e.g. an SCR switch) where firmware recognizes it and permits current through a thermal wire. This innovation is optionally employed in a related application of PFN/TRAC/ FACT System for Homeland Security.